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USIR/Medicine - Erythropoiesis

Jul/Aug 1947

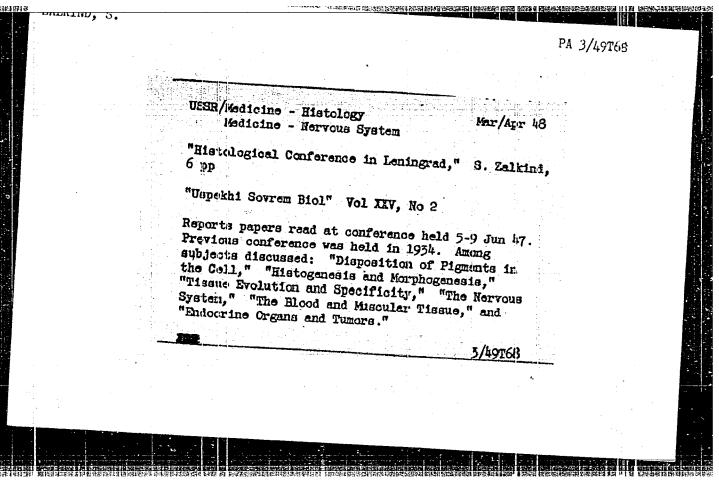
Medicine - Blood, Cells

"How Theories of Erythropoiesis," S. Ya. Zalkind, Mossew, 1 p

"Uspeklii Sovremennoy Biologii" Vol XXIV, No 1 [4)

This erticle appears to be a summary of certain facts which appeared in several foreign publications. Listed are "Secretion of Red Blood Corpuscles" by Duren and Jorda in Nature, Vol 159, No 4035, 1947; "Crisin of Erythrocytes" by Waide in Nature, Vol 159, No 40314, 1947; article by Chevremont, "Journal of Marphology" Vol 76, No 3, 1945, p 139.

23:274



ZALKIND, S. YA. PA 47/49759 USSR/Medicine - Histology, USSR Medicine - Histology, Teaching Jan/Feb 49 "Conference on Problems of Development in Histology," S. Ya. Zalkind, 4 pp "Uspekhi Sovrem Biol" Vol XXVII, No 1 Dept of Medico-Biol Sci, Inst of Experimental Med, and Inst of Morph, all of Acad Med Sci USSR, held a joint session on 17-18 Dec 48 to determine current state of Soviet histology. Gives excellent list of foremost scientists working on problems in histology in presentday USSR. 47/49159

"Franz Johrader, Mitosis, Columbia University Fress, 1944." (p. 317) by Zalkind, S, Ye.

SO: FREGRESS OF CONTEMPORARY FIOLOGY (Us. Sovrem. Biol) Vol. XXVII 1949, No. 2-March-April.

ZAL'KIRD, S. Ya.

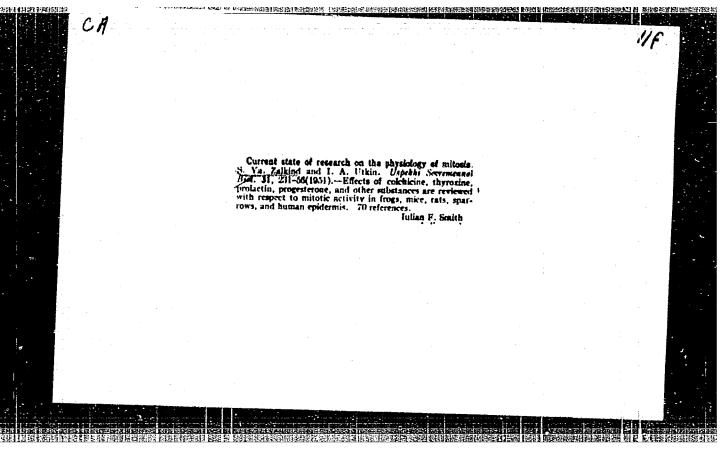
"The 5th Congress Of Anatomists, Histologists and Embryologists." (p.429) by

So: Progress of Contemporary Biology (Usp. Sovrem. Biol.) Vol. XXVIII, 1949, Nc.3

(6) (Nov.-Dec.)

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So: Progress	of Contemporary	Biology, 1951	., Vol.	XXXI, No.	l, January	-February	
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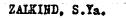


ZALKIMO, S.Ya.

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Mitosis and functional activity of the cell. Usp. sovrem. biol. 33 no. 3:431-449 May-June 1952. (CLML 22:4)

1. Moscow. 2. Includes a sectioning on the prevention of cell growth by a vital pigment as a method for inhibiting the growth of tumors.



Yeast-cell proliferation as an indicator for detecting organic compounds in small amounts. Uspekhi Sovremennoy Biol. 34, 473-7 '52. (CA 47 no.14:7036 '53) (MLRA 5:12)

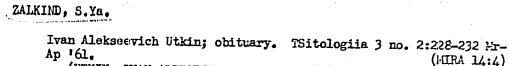
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ZALKIND, S.Ya.; STEPANOVA, L.G.

Comparative cytological analysis of tissue culture cells under normal conditions and under the influence of the policmyelitis virus. Report No.2: Cytological changes in cells cultivated under the influence of the policmyelitis virus. Biul. eksp. biol i med. 50 no.12:76-80 D '60. (MIRA 14:1)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta virusnykh preparatov Ministerstva zdravookhraneniya Soyuza SSSR. Predstavlena deystvitel'aym chlenom AMN SSSR G.V. Vygodchikovym.

(POLICHYELETIS) (TISSUE CULTURE)



(UTKIN, IVAN ALEKSEEVICH, 1921-1960) (BIBLIOGRAPHY-BIOLOGY)

ZAIKIND, S.Ya.

Species specificity of cancer inhibitor. Doklady Akad. nauk SSSR 87 no. 4:685-688 1 Dec 1952. (CLML 23:5)

1. Presented by Academician A. D. Speranskiy 3 October 1952.

ZALKIND, S. Ya. (Prof)

"The Life of Cells Outside the Organism," published by the Soviet Science State Publishing House, Moscow, 1953

This book on the cultivation of cells and animal tissues outside the organism, gives information on the experimental methods, and describes the various aspects and phenomena of the study of cells living outside the organism.

XVIII

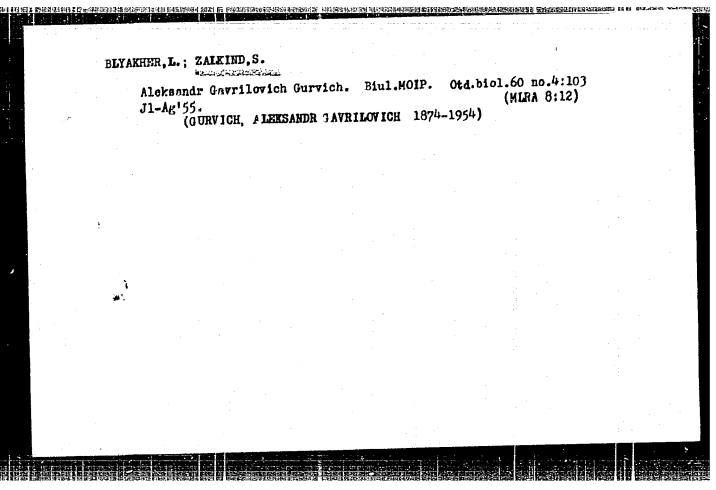
Translation Sum. No. 322, 14 Apr. 15

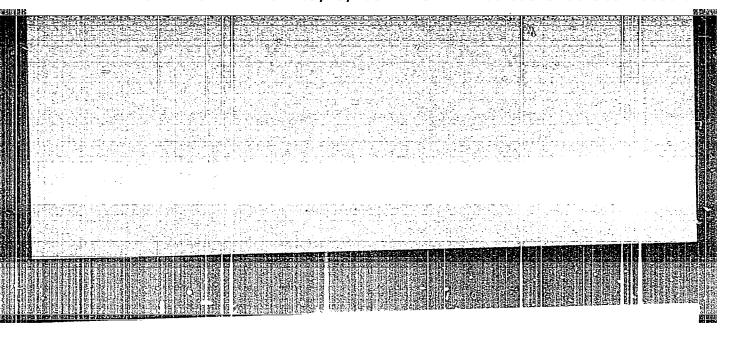
ZALKIND, S. Ya.

"Mitotic Regimen of the Organism Under Normal and Pathological Conditions," Usp. Sovrem. Biol., 38, No.1, pp 68-85, 1954

Translation M-711, 24 Aug 55

Usar/ Medicine - Cytology Pub. 22 - 55/63 Oard 1/1 : Zalkind, S. Ka. Authors . Irritation with electric current and its effect on the mitotic activity Titleof the corner epithelia of white mice Periodical : Dok. AN SSSR 99/6, 1091-1093, Dec 21, 1954 Abstract : Experiments were conducted on white mice to determine to what extent the mitotic activity of cornea epithelia would be affected by excitation of the central nervous system by strong, painful irritation. DC-current of 15 - 20 v was used as the medium of irritation. Results showed that painful irritation has a distinct effect on the mitotic activity of the cornea epithelia, delaying the work of the cells in their fission processes and causing displacements with respect to phases which is apparently connected with the tempo of the already functioning mitosis. Four USSR references (1951-1954). Tables. Institution: Presented by: Academician A.I. Abrikosov, October 23, 1954





ZAIKIND, S.Ta.

In memory of M.A.Vorontsova. Biul.MOIP. Otd.biol.62 no.1:97-100
(MIRA 10:6)

Ja-F '57.
(VCRONTSOVA. MARIIA ALEKSANDROVNA, 1902-1956)
(RECEMBRATION (BIOLOGY))

AUTHOR:

Zalkind, S. Ya.

20-119-2-49/60

TITLE:

The Mitotic Activity of the Spleen in the Process of Immunoand the second of the first of the first of the second of

genesis (Mitoticheskaya aktivnost' selezenki v protsesse

immunogeneza)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 2,

pp 365 - 368 (USSR)

ABSTRACT:

Recently data have accumulated which give reason to believe that the mitotic activity of an organism is closely dependent on its physiological condition. The factors of environment as well as the processes occuring in the organism have an essential influence on this activity in many organs (References 1-4). Therefore, it is very likely that also deviations from the physiological standard, and especially pathological conditions, must modify the mitotic activity. Existing data confirm this assumption from papers (Reference 5,6) on the reduction of the mitotic activity in tissues of infected with tumor. The material dealing with the influence of other pathological conditions is extremely scarce (References 7-9). The problem, however, is of importance and all-round

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The Mitotic Activity of the Spleen in the Process of Immunogenesis

interest. Modification of mitotic activity obviously is of no small importance for an analysis of the pathological process itself and for the alterations of the biological fundamental processes caused by it. Especially, the investigation of the mitotic activity during the immunogenesis is very interesting. The development of suchscomplicated phenoimmunity must be accompanied by alteramenon as proliferamitotic activity, simply because tions of tive hyperplasia is one of the most constant protective reactions in the acquirement of immunity (Reference 11, 12). mentioned in activity For these reasons, the the title was investigated. The immunocenesis here was caused by an injection of anti-pest vaccine EV-76 and AMP-32-70 in guinea -pigs. 12 - 17 days later, a considerable increase of R E S-elements in the place of injection, and in several inner organs, was ascertained. The author wanted to compare these data with the intensity of mitosis in such an important the spleen. The test animals were killed R E S-organ as

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The Mitotic Activity of the Spleen in the Process of Immunogenesis

by chloroforming on the 4th,7th,10th,14th,17th,21st,30th and 40 th days. Guinea-pigs who had been injected with BTsZh-vaccine, a deadened typhus-vaccine, or 1 ml of physiclogical common salt solution 10 - 17 days before their death, served as controls. The results are shown in table 1 as well' as in figure, 1 and 2. Both anti-pest vaccines cause a rapid mitotic activity after 10-17 days, that is, in the culmination of the reactive hypertrophy. This stimulation obviously is connected with the existence of living microbe particles in the vaccine. At least the influence of the vaccine EV, deadened by heating, caused 33 mitoses per 100 fields of vision on the average, which considerably exceeds the number of mitoses occuring after injection of physiological common salt solution; but only corresponds to half the number of mitoses in the spleen occurring after the introduction of living vaccines. This harmonizes with the fact that the immunity according to all parameters is more perfect after introduction of living vaccines than after influence of

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20- 119-2-49/60

The Mitotic Activity of the Spleen in the Process of Immunogenesis

deadened vaccines. The anti-pest vaccines obviously have a mitotic activity.BTsZHspecific influence stimulating -vaccine and deadened typhus-vaccine had the same effect as the physiological salt solution. Thus proteins do not stimulate the activity. The development of a state of active stress immunity as a direct cause of the increasing mitotic activity in the spleen can be regarded as the most probable one. Especially, it can be assumed that as a consequence of the mitoses which guarantee cell generations are occuring the protection reaction of the organism by introducing the factor. The above results have to be regarded as provisional and do not make it possible to solve several problems arising in connection with this There are 2 figures, 1 table and 12 references, all of which are Soviet.

PRESENTED:

December 9, 1957, by K. I. Skryabin, Member, Academy of

Sciences, USSR

Card 4/5

GULEVICH, N.Ye.; ZAIKIND, S.Ya.

Preservation of HeLa cells in suspensions at room temperature and in refrigeration at 4°C. Vop.virus. 4 no.6:728-734 N-D '59.

1. Moskovskiy institut preparatov protiv poliomiyelita.

(TISSUE CULTURE)

ZALKIND, S.Ya.

Effect of medication sleep on mitotic activity of the corneal epithelium in white mice. Biul.eksp.biol. i med. 48 no.7: 99-101 J1 159. (MIRA 12:10)

1. Iz Hoskovskogo nauchno-issledovatel skogo instituta preparatov protiv poliomiyelita. Predstavlena deystvitel nym chlenom AMN SSSR V.N.Chernigovskim.

(SLHEP) (CHIL DIVISION) (CORNEA - physiology)

ZALKIND, S.Ya.; STEPANOVA, L.G.

Comparative cytological analysis of cells in tissue culture under normal conditions and following exposure to the poliomyelitis virus. Report No.1: Dynamics of cytological changes in four strains of cultivated cells in normal conditions. Biul.eksp.biol. i med. 47 no.6:110-115 Je '59. (MIRA 12:8)

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1. Iz Moskovskogo nauchno-issledovatel skogo instituta preparatov protiv poliomiyelita. Predstavlena deystvitel nym chlenom AM SSSR V.N.Chernigovskim.

(TISSUE CULTURE,

cytol. of normal cells & cells exposed to polio. virus (Rus)) (POLIOMYELITIS VIRUS, cytol. of cells in normal tissue culture &

cells exposed to polic. virus (Rus))

CIA-RDP86-00513R001963710008-6" APPROVED FOR RELEASE: 09/19/2001

ZALKIND, S.Yn.

Conference on the problem of mitosis. TSitologiia 3 no.6:714-718 (MIRA 14:12)
N.-D *61. (KARYOKINESIS...CONGRESSES)

ZALKIND, S.Ya. (Moskva, V-17, Pyzhevskiy per:, 5, kv.3)

Tenth Congress of Gell Biology. Arkh. anat. gist. 1 embr. 40 no.6s (MIRA 15:2)
116-118 Je '61. (CYTOLOGY_CONGRESSES)

ZALKIND, S.Ya.; KULIKOVA, K.S.; BORISOGLEBSKAYA, N.V.; DUBROVSKAYA, R.V. Comparative cytological analysis of the effect of the smallpox

Comparative cytological analysis of the effect of the smallpol vaccine virus on tissue culture cells. Vop.virus 7 no.5:586-594 S-0 '62. (MIRA 15:11)

1. Moskovskiy nauchno-issledovatel skiy institut virusnykh preparatov.

(TISSUE CULTURE) (VACCINE LYMPH)

ANDZHAPARIDZE, O.G.; BOGOMOLOVA, N.N.; ZALKIND, S.Ya.

Chronic cell infection by the virus of tick-borne encephalitis.
Report No. 1: Gell properties of chronically infected cultures.
Vop.virus. 7 no.6:650-654 N-D '62.

1. Moskovskiy nauchno-issledovatel'skiy institut virusnykh
preparatov. (CELLS) (ENCEPHALITIS)

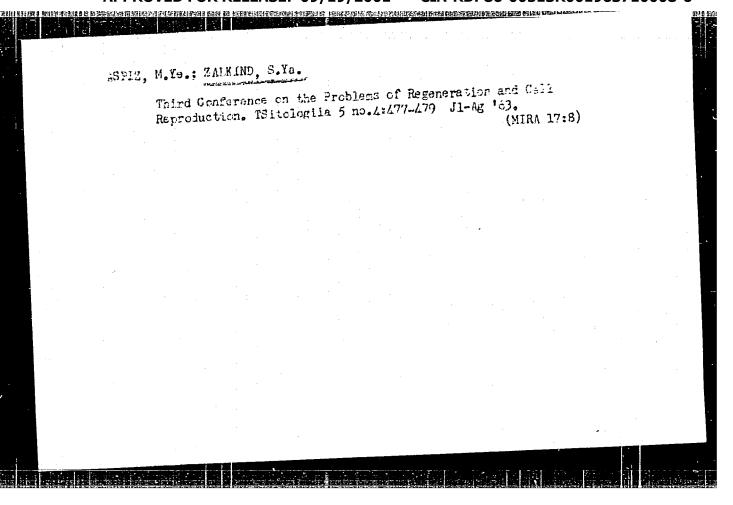
ZALKIND, S.Ya.; STEPANOVA, L.G.; TERSKIKH, V.V.

Stability of transplantable cell lines. Biul. eksp. biol. i med. 53
(MIRA 15:4)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta virusnykh
preparatov. Predstavlena deystvital'nym chlencm ANN SSSR V.V.

Parinym.

(TISSUE CULTURE) (CYTOLOGY) (VIROLAGY)



ALEKSANDROV, V.Ya., prof.; ERODSKIY, V.Ya.; ERONSHTEYN, A.A.;

ERUMEERG, Ye.M.; VAKHTIN, Yu.B.; VINNIKOV, Ya.A.;

GAYTSKHOKI, V.S.; GOROSHCHENKO, Yu.L.; GULYAYEV, V.A.;

ZHINKIN, L.N.; ZAVARZIN, A.A.; ZALKIND, S.Ya.; ZBARSKIY,

ZHINKIN, L.N.; ZAVARZIN, A.A.; ZALKIND, S.Ya.; ZBARSKIY,

I.B.; KATSNEL'SON, Z.S.; KONISSARCHIK, Ya.Yu.; LEVIN, S.V.;

MARAKHOVA, I.I.; MASHANSKIY, V.F.; MOSEVICH, T.N.; NIKOL'SKIY,

N.N.; PESHKOV, M.A.; FOLENOV, A.A.; FOLYANSKIY, Yu.I.;

ROZENTAL', D.L.; RUMYANTSEV, P.P.; TITOVA, L.K.; FEDIN, L.A.;

KHEYSIN, Ye.M.; CHERNOGRYADSKAYA, N.A.; TROSHIN, A.S., otv.

KHEYSIN, Ye.M.; CHERNOGRYADSKAYA, N.A.; TROSHIN, A.S., otv.

RAYKOV, I.B., red.; PARIBOK, V.P., red.; POLYANSKIY, Yu.I., red.;

RAYKOV, I.B., red.

[Manual on cytology in two volumes] Rukovodstvo po tsitologii v dvukh tomakh. Moskva, Nauka. Vol.1. 1965. 571 p. (MTRA 18:2)

1. Akademiya nauk SSSR, Institut tsitologii.

ZALKIND, S.YR.; BORISOGLEBSKAYA, N.V.; BOGOMOLOVA, N.N.; VALIDMAN, K.L.

Flucrescence microscopic analysis of HEp-2 cells with chronic tick-borne encephalitis virus infection. Vop. virus. 10 no.5:563-567 S-0 *65.

(MIRA 18:11)

1. Moskovskiy nauchno-issledovatel skiy institut virusnykh preparatov.

ZALKIND, S.Ya.; DOSSER, Ye.M.; DOROFEYEV, V.M.

Comparative morphological study of the renal tissue culture in some vertebrates. Arkh.anat., gist. i embr. 49 no.10:12-17 (MIRA 18:12)

1. Laboratoriya virusnoy tsitopatologii (zav. -- prof. S.Ya. Zalkind) Moskovskogo nauchno-issledovatel skogo instituta virusnyka preparatov. Submitted June 30, 1964.

EWT(1)/T L 27194-66 SOURCE CODE: UR/0402/65/000/C05/0563/0567 ACC NR. APGOOLISES Ya.; Borisoglebskays, N. V.; Bogomolova, AUTHOR: Zalkind, 3. Val'dman. K. L. ORG: Moscow Scientific Research Institute of Viral Preparations (Moskovskiy nauchno-isslavodatel'skiy institut virusnykh preparatov) TITLE: Analysis by luminescent microscopy of Hep-2 cells with chronic tick-borns encephalitis virus infection SOURCE: Voprosy virusologii, no. 5, 1965, 563-567 TOPIC TAGS: virus disease, luminescence, microscopy, RNA, histology, beharding apparates, colimphysiology, encephalitis, cyfology ABSTRACT: The dynamics of RNA production was studied from the first to the 12th day in a line of the above cells end another new one which developed as a result of a thermal effect (50 C) from one surviving colony. The cells were grown on mice platelets in test tubes and studied histochemically by luminescence microscopy after acridine orange steining. To determine the specificity of the stain, controls were set up with live cells. A 0.1% solution of crystalline ribonuclease was prepared for treating the cells prior to and after the staining. 576.858.25.095.383.086 UDC: Card 1/2

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5th day. In the ability cytoplasm re	fected cells will to produce virus sembled those of	changed their morpholog	y. Granules in the cells revealed a cells revealed a cells arowth and	e w
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ZALKINE, S.Ya. (Moskva, C-108, ul. Gerasina Kurina, 18, kv.47)

Cell multiplication and viral infection in tissue culture. Arkh. anat., gist. i embr. 46 no.4295-103 Ap *64.

1. Laboratoriya virusnoy tsitoratologii (zav. - prof. S.Ya. Zalkind) Moskovakogo nauchno-issiedovatel skogo instituta virusnykh preparatov.

ZALKIND, S.Ya.; ZASLAVSKIY, V.G.

Adaptation of cells to conditions of cultivation in vitro. TSit-logiia
5 no.5:519-529 S-0 462. (MIRA 18:5)

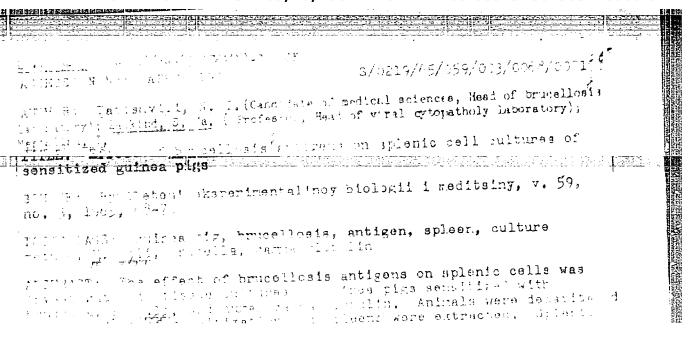
1. Laboratoriya virusnoy tsitopatologii Moskovskogo nauchnoissledovatel*skogo instituta virusnykh preparatov, Moskva.

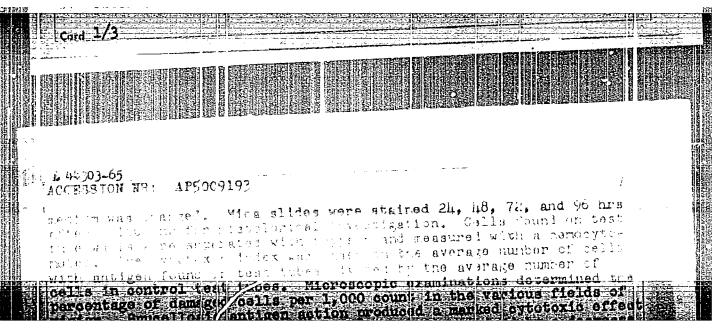
ZALKIND, S.Ya.

Current state of the problem of the cytopathic effect of viruses.

Vest. AMN SSSR 19 no.12:11-19 *64. (MIRA 18:4)

1. Nauchno-issledovatel skiy institut virusnykh preparatov, Moskva.





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ZALKIND, S. Ya.; POBERIY, I. A.; BORISOGLEBSKAYA, N. V.; IZAKOVA, L. P.; TTKHOMIROVA, T.I. BOGOMDLOVA, N. N.

"Tsitokhimicheskoye i avtoradiograficheskoye izucheniye infitsirovannoy viruzami kletki."

report presented at Symp on Virus Diseases, Moscow, 6-9 Oct 64.

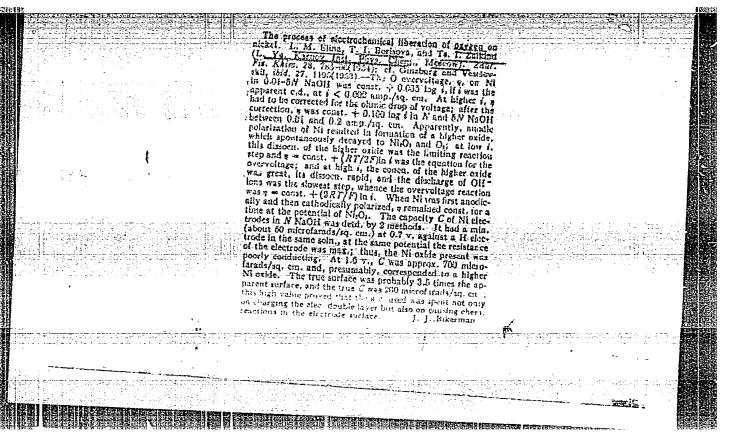
Moskovskiy nauchno-issledovatel'skiy institut virusnykh preparatov.

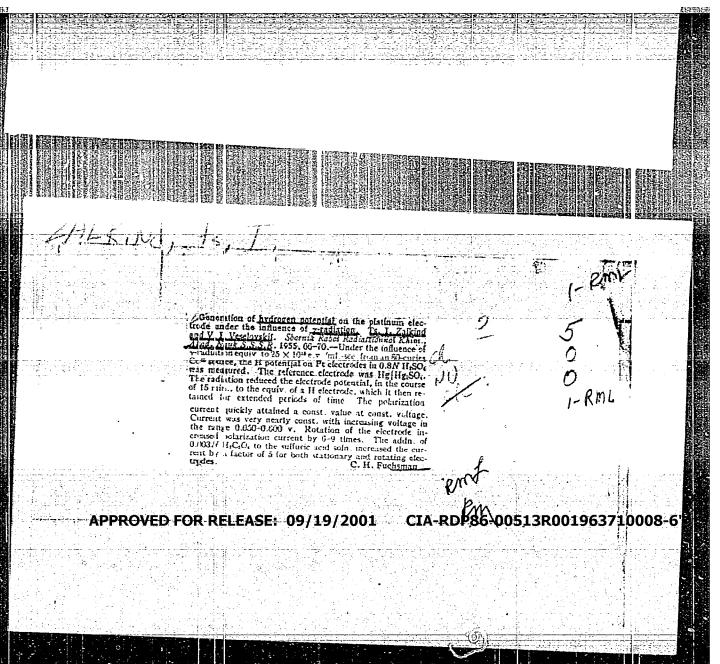
ZALKIND, S.Ya.; RAPOPORT, R.I.; DOROFEYEV, V.M.

Cytochemical study of testicular tissue culture of the monkey. TSitologiia 6 no.1:81-85 Ja-F '64. (MIRA 17:9)

1. Laboratoriya virusnoy tsitologii Nauchno-issledovatel'skogo instituta virusnykh preparatov, Moskva.

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ZALKIND, Ta. I.

in collection of articles-

Effect of Ionizing Radiation (**) on Inorganic and Organic Systems, Moscow, Izd-vo AN SSSR, 1958, 416pp. (most works a continuation of So rabot po radiat. Maim, 1955) 22 references of which 3 are Soviet, 16 English, and 3 German.

66

Zalkind, Ts.I., Veselovskiy, V.I. Mechanism of Radiochemical Formation of Stationary Potential Differences in Aqueous Solutions

The stationary potential difference of ~ 0.9 is formed in the system Pt/H₂SO_h saturated with nitrogen/Au and irradiated with Co⁶⁰

y-radiation. It was shown that the formation of a positive potential at the Au electrode is connected with the radiolytic formation of the OH radical. The oxidation of the electrode during heating facilitates the formation of the positive potential at the Au electrode. The rate of reduction is determined by the rate of the electrode reaction, i.e., the electrochemical discharge stage. There are 6 figures, and 6 references of which 5 are Soviet and 1 English.

Zalkind, Ts.I., Veselowskiy, V.I. Photoelectrochemical and Radiation Electrochemical Processes in Aqueous Solutions of Uranium Salts Uranium salts were irradiated with radon and Co⁶⁰. It was shown that the hexavalent uranium salts show reduction of uranyl ions to pentavalent uranium ions. Due to the ease of oxidation - reduction transitions in the system U(VI / U(V), the increase of the uranyl ion concentration is followed by a decrease in the smount

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Effect of Ionizing Radiation (Cont.)

790

93

of the formed $\rm H_2O_2$, uranium peroxide compounds, and in the exidation of U(IV) and oxalic acid. Irradiation of the system U(IV) / U(VI) and U(III) / U(IV) results in a shift of equilibrium and the formation of more oxidized forms. There are 14 figures, 7 tables, and 18 references of which 8 are Soviet, 7 English, and 3 German.

Miller, I.B., Veselovskiy, V.I. Radiation Electrochemical Processes in Aqueous Solutions of Uranyl Salts

This is a study of the electrochemical nature of the redox components in the radiolysis of uranyl salt solutions. Certain conditions were established for the formation of the "hydrogen" and "oxygen" potentials in this system. A stationary potential of the Pt electrode develops during 7 -irradiation due to the emergence of nonequilibrium concentrations of U(V). The stationary potential at the Au electrode in uranyl sulfate solutions is ~ 1.1v, while at the Pt electrode it shifts towards negative values. There are 9 figures and 12 references, of which 6 are Soviet and 6 English.

Card 9/31

4/2

PSHEZHETSKIY, Samuil Yakovlevich; ZALKIND, TS.I., red.; ZAZUL'SKAYA,
V.F., tekim. red.

[Mechanism of radiation-chemical reactions]Mekhanizm radiatsionnokhimicheskikh reaktsil. Moskva, Goskhimizdat, 1962. 360 p.

(Radiochemistry)

(Radiochemistry)

SOBKOVSKI, Ye.; ZALKIND, TS.I.

Oxidation of tetravelent uranium ions in perchloric acid solution under the effect of cobalt-60 gamma-radiation. Zhur. fiz. khim. 39 ho.6:1388-1392 Je '65. (MIFA 18:11)

1. Fiziko-khimicheskiy institut imeni Karpova. Submitted Jan. 27, 1964.

SHEPELIN, V.A.; ZALKIND, TS.I.; VESELOVSKIY, V.I.

Steady-state reduction of oxygen on a platinum cathode in alkaline solution. Znur.fiz.khim. 38 no.8:2098-2101 Ag 164.

(MIRA 18:1)

1. Fiziko-khimicheskiy institut imeni P.Ya.Karpova.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963710008-6"

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GOCHALIYEV, G.Z.; ZALKIND, TS.I.; VESELOVSKIY, V.I.

Stationary electrochemical process in the irradiated system Pt (sulfuric acid solution) Au. Dokl. AN SSSR 146 no.1:131-134.8 (MEA 15:9)
162.

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. Predstavleno akademikom A.I. Frumkinym. (Electrochemistry) (Radiation) (Systems (Chemistry))

5/844/62/000/000/030/129 D244/D307

Gochaliyev, G. Z., Zalkind, Ts. I. and Veselovskiy, V. I.

The radiation electrochemical processes in oxygen-bearing AUTHORS:

aqueous solutions of sulphuric acid TITLE:

Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, SOURCE:

TEXT: The authors investigated radiation-chemical processes in O2-containing solutions to obtain additional data on the intermediate reaction products. The experiments were conducted at 10°C + 100 with a rotating Pt electrode and a dropping Hg electrode immersed in 0.005 N H₂50₄ + 0.5 N Na₂So₄ containing O₂. The irradiation dosage was 4 x 1016 ev/ml.sec. On irradiation there appear tion dosage was 4 x 10 ev/mi.sec. on irradiation there appear two waves in the polarization curve for the Pt electrode, occurring at 0.76 and 1.6 v, corresponding to the oxidation of H₂O₂ formed

Card 1/3

CIA-RDP86-00513R001963710008-6" **APPROVED FOR RELEASE: 09/19/2001**

5/844/62/000/000/030/129 D244/D307 during irradiation, and the value of the limiting current at the reducing notentials of the increased wifty minutes often the limiting current at the during irradiation, and the value of the limiting current at the bereducing potentials of 02 is increased. Fifty minutes after the reducing of irradiation, stationary currents are established, corginning of irradiation, stationary currents are end of irradiation. The radiation ... ginning of irradiation, stationary currents are established, corresponding to the oxidation of H₂O₂. After the end of irradiation, current decreases in both cases, which is ascribed to the disappearance of intermediate reaction products canable of being ovicurrent decreases in both cases, which is ascribed to the disappearance of intermediate reaction products capable of being oxipearance of intermediate reaction products capable of being oxidized at the same potentials as H_2O_2 and reduced at the reduction potential of O2 at the Pt electrode. For the dropping Hg electrode there are also two polarization waves, the first of which corresponds to the reduction of 02 to H202 through the intermediate stage of HO2 formation, and the second corresponding to the reduction of H202 to H20. An increase in the current during irradiation takes place both at the reduction potentials of 0_2 and at that of $H_2 O_2$. For the Pt electrode, the current decreases at the reduction potentials of 0_2 after the irradiation is cut off. The stationary con-Card 2/3

The radiation ...

8/844/62/000/000/030/129 D244/D307

centration of $\rm H_2O_2$ obtained during the irradiation was calculated. With decreasing concentration of $\rm H_2O_2$ (1.64 to 1.18 n x $\rm 10^{-3}$) the concentration of the intermediate products falls from 3.4 x $\rm 10^{-4}$ to 1.6 x $\rm 10^{-4}$ M. There are 5 figures and 1 table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-Chemical Institute im. L. Ya. Karpov)

Card 3/3

3/844/62/000/000/0128/129 D444/D307

Gochaliyev, G. Z. and Zalkind, Ts. I. AUTHORS:

An electrochemical method for determining the dose rate TITLE:

of of radiation

Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-SOURCE:

mii. Ed. by L. S. Polak. Moscow, Izd.vo AN SSSR, 1962,

741-746

TEXT: If an electrode possessing a surface very large relative to the volume of solution, is immersed in a solution of oxalic acid, practically all the hydrogen formed by radiolysis is oxidized on the electrode, and the current is proportional to the rate of hydrogen formation, which is shown to be linearly dependent on the dose rate. The electrode used was in the form of a platinum grid on glass. Tests in the range of 5 - 750 r/sec confirmed the linear relation, reproducibility being + 1%. The system can also be used relation, reproducibility being + 1% the dose rate and the volume to measure the yield of hydrogen if the dose rate and the volume of solution are drawn. The clostrockerical dose-mater instrument of solution are known. The electrochemical dose-meter instrument

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CIA-RDP86-00513R001963710008-6

s/844/62/000/000/128/129 D444/D307

An electrochemical method ...

consists essentially of an electrochemical-cell transmitter and a measuring circuit. The former includes the electrode, a reference electrode and an auxiliary electrode for polarization. The measuring circuit contains potentiometric and polarization components. There are 6 figures.

Fiziko khimicheskiy institut im. L. Ya. Karpova (Physico-Chemical Institute im. L. Ya. Karpov) ASSOCIATION:

Card 2/2

CIA-RDP86-00513R001963710008-6" **APPROVED FOR RELEASE: 09/19/2001**

\$/081/62/000/010/015/085 B138/B101

AUTHORS:

Zalkind, Ts. I., Miller, N. B., Gochaliyev, G. Z.,

Veselovskiy, V. I.

Radiation electrochemical processes in aqueous electrolyte TITLE:

solutions

Referativnyy zhurnal. Khimiya, no. 10, 1962, 62, abstract 10B416 (Tr. Tushkentsk. konferentsii po mirn. ispol'zovaniyu PERIODICAL:

atomn. energii, 1959, v. 1. Tashkent, AN UzSSR, 1961, 347-354)

TEXT: By means of electrochemical measurements on Pt-, Au- and Hg-electrodes, a study has been made of the radiation electrochemical processes that occur in solutions of ${\rm H_2SO_4}$, and of ${\rm H_2SO_4}$ with additions of ${\rm U(4+)}$, ${\rm U(6+)}$, ${\rm (COOH)_2}$, during ${\rm Co}^{60}$ γ radiation. From the results it is concluded that both molecular hydrogen and H atoms are ionized. (Their stationary concentration at a dose rate of $6.1\cdot10^{16}~\rm ev/cm^3$ sec was assessed as 2.3.10-5 N; this diminished with pH). On the Hg-electrode in the presence or O_2 the HO_2 radical is reduced. It was found that if the solutions of Card 1/2

S/081/62/000/010/015/085 B138/B101

Radiation electrochemical processes in ... B138/B101 uranium salts were subjected to radiolysis, the rate of U(5+) accumulation in the mixture of U(4+) and U(6+) was twice as high as in the U(4+) solution. In the H_2SO_4 solution with $(COOH)_2$ additions, the curve for the accumulation of H_2 in dependence on the $(COOH)_2$ concentration shows a maximum at $\sim 1 \cdot 10^{-2}$ N. H_2O_2 formation begins in this same range. [Abstracter's note: Complete translation.]

Gard 2/2

GOCHALIYEV, G.Z.; ZALKIND, TS.I.; VFSELOVSKIY, V.I.

Potential of a platinum electrode in an irradiated solution of sulfuric acid. Dokl.AN SSSR 132 no.4:872-875 Je '60. (MIRA 13:5)

1. Fiziko-khlmicheskiy institut im. L.Ya, Karpova. Predstavleno akademikom A.N. Frumkinym. (Electrodes, Platinum) (Flectromotive force) (Radiation)

51201

\$/020/60/132/04/38/064 B004/B007

5.4600

AUTHORS:

Goohaliyev, G. Z., Zalkind, Ts. I., Veselovskiy, V. I.

TITLE:

The Potential of the Platinum Electrode in an Irradiated

Sulfuric Acid Solution

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 4,

pp. 872-875

TEXT: In earlier papers (Refs. 1-4) the authors found that the potential of a Pt electrode in irradiated 0.8 H H₂SO₄ (irradiation dose 2.1015 ev/cm3.sec) assumes a value close to that of the potential of the H electrode. The present paper deals with the results obtained by a more intensive irradiation (6.1.10 ev/cm sec). The experiments were carried out with a Co60 radiation source, and the method is described in Refs. 2 and 3. Fig. 1 shows the dependence of the potential of the Pt electrode in oxygen-free 0.8 N H2SO4 on the duration of irradiation. Also with this intensity, selectivity of the Pt electrode with respect to the reducing radiolytic products was observed. The potential assumes a value of between

Card 1/3

The Potential of the Platinum Electrode in an Irradiated Sulfuric Acid Solution

S/020/60/132/04/38/064 B004/B007

10 and 20 mv, which remains constant up to a dose of 2,1020 ev/cm3 and then rises up to 0.85 v (Fig. 1). For the oxidation of the reducing radiolytic products and the reduction of the oxidizing radiolytic products, occurring in the irradiated solution, the authors derive equations for the currents I_R and I_{0x} . As the reaction constant k_R^{\dagger} is considerably greater than k' because of the selectivity of the Pt electrode, the potential observed results. By the escape of H into the gaseous phase the stoichometric ratio between the reducing and the oxidizing products is, however, disturbed, which leads to a positive shifting of the potential in the case of high doses. Fig. 2 shows the dependence of the depolarization current at 0.4 v on the duration of irradiation. The course of this curve is explained as follows: Due to the selectivity of the Pt electrode, the oxidation of H at first predominates. As a result of the escape of H into the gaseous phase, the reduction of H202 is accelerated, the total current (IH = IH202) decreases and attains negative values in the case of doses higher than 2.1020 ev/cm3. If the experiment is carried out in a vessel that is hermetically sealed and completely filled with the solution so that no gaseous phase is able Card 2/3

The Potential of the Platinum Electrode in an Irradiated Sulfuric Acid Solution

S/020/60/132/04/38/064 B004/B007

to form and no hydrogen can escape, a potential of +20 mv quickly forms, which remains constant throughout the experiment (20 h)(Fig. 3). Because of the increasing concentration of the oxidizing products, the polarization current quickly decreases (Fig. 4). The ionization of the H on the Pt electrode, which is formed by radiolysis, may therefore be carried out in the case of a steady potential only if the reduction of the oxidizing products takes place at the same rate (e.g., on a second electrode which is selective for these products). At the same time, a current will flow through the outer circuit. There are 4 figures and 7 references: 6 Soviet and 1 English.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov)

PRESENTED: February 26, 1960, by A. N. Frumkin, Academician

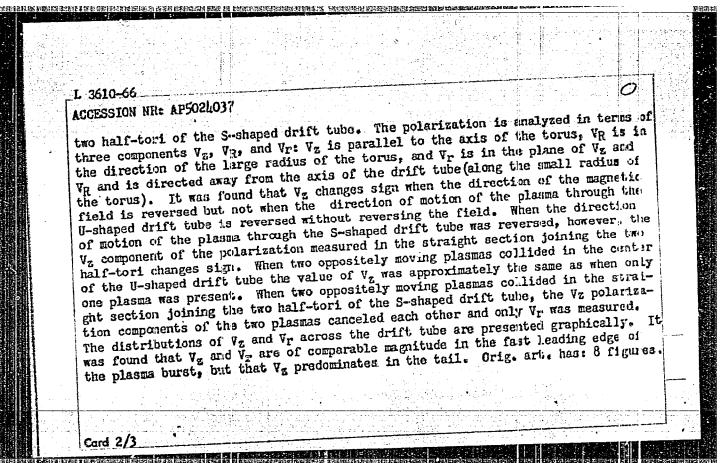
SUBMITTED: February 25, 1960

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ACCESS IC	HT(1)/EII/EPF(II)-2/EIIGE NR: AP50240315 44.55 11'yenko, B.P.; Lats'ko, Ye.	445. M.; Zalkind, V	44555.9 .H.; Zykiv, V.G.	44.55 13
TITLE: .	Investigation of the polariz	ation of a pla	and moving in a hel	ical mag-
SOURCE:	Zhurnal tekimicheskoy fiziki	, v. 35, no. (, 1965, 1594-1597	
TOPIC T	GS: inhomogeneous plasma, el field, helical magnetic fiel	lectric field, ld	toroidal geometry,	longitudinil
cal mag field. radius The lar straigh procal Plasmas	the authors have investigated field on the polarization the longitudinal magnetic first shaped copper drift tube by a radius of the toroidal secretary of the toroidal secretary of the formation triple he with ion densities exceeding on. The clastic (polarizate to be at the exit from the toroidal action to the exit from the toroidal secretary of the exit from the exit from the toroidal secretary of the exit from the exit from the exit from the exit from the toroidal secretary of the exit from the exi	eld (up to 200 suitable wind tion of the da helical field lical winding 1013 cm ⁻³ wer	kA/m) was produced ings powered with do ift tube was 42 cm a was produced by a 13 carrying currents up a inject at one end the plasma was neason	in a 4 cm; generators. Ind the 4 cm recipo to 3 kÅ. by a conical ared with a

L 3612-66 ACCESSION NE: APSO240:15 azimuth in order accurately to determine the direction of the pularization. In 7.1 the absence of the helical field, the polarization vector rotated through an angle of 1/2 when the longitudinal field was reversed; this behavior is in agreement with theory (N.A.Khizhnyak. Fizika plazmy i problemy upravienty termoyadernogo sintega, No. 4, Izd. Alf USSR, Kiyev, 1962). Application of the belical field did not decrease the polarization but rotated its direction through an angle corresponding to the rotation of the lines of force; this rotation was m/3 radians when the longitudinal field strength was 160 kA/m and the current in the helical winding was 3 kA. The density of the plasmas at the exit from the toroidal section was measured with a screened probe. In the absence of the helical field the plasma density was approximately 8 x 1010 cm⁻³ when the longitudinal field strength was 40 kA/m and 6 x 1.011 cm-3 when the longitudinal field strength was 200 kA/m. Application of the helical field (when the longitudinal field was 56 kA/m) increased the plasma density at the exit from the toroidal section by as much as a factor 10. This increase was greater for the slower components of the plasma burst than for the fuster components. Orig. art. has: 1 formula and 8 figures. ASSOCIATION: none SUB CODE: 12 ENCL: 00 18Dec64 SUBMITIED: OTHER: NR REF 807: 003 Card 2/2

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l V	The Threstigation of the polarization of plasmas moving in magnetic fields of
1	opposite curvatures SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1601-1605 TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal
	magnetic field,
	magnetic field, using the opportunity and AP50240367 and AP502403077 and, in 35, 1598, 1601, 1965 (see abstracts AP5024035 and AP50240307) and, in 35 cm 35, 1598, 1601, 1965 (see abstracts AP5024035 and AP50240307) and, in 35 cm 35, 1598, 1601, 1965 (see abstracts AP5024035 and AP50240307) and, in 35 cm 35, 1598, 1601, 1965 (see abstracts AP5024035 and AP50240307) and, in 35 cm 35, 1598, 1601, 1965 (see abstracts AP5024035 and AP50240307) and, in 35 cm
	1 cm diameter 3-shaped by a 20 cm long straight section. A longitudinal large radius joined by a 20 cm long straight section. A longitudinal large radius joined by a 20 cm long straight tubes. Plasmas could be injected at field of 200 kA/m was maintained in both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes by means of conical plasma guns. The pole either or both ends of both drift tubes are also at the center of the tor- either or both ends of both drift tubes and in the straight section joining the order of the U-shaped drift tube and in the straight section joining the
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L 3611-66 ENT(1)/ETC/EPE(n)-2/ENG(m)/EPA(w)-2 IJP(c) UR/0057/65/035/009/1598/1601 ACCESSION NR: AP5024036 AUTHOR: Il'yenko, B.P.; Lats'ko, Ye.H.; Zalkind, Investigation of the polarization of a plasma moving in a toroidal magna-TITLE: 71.44.55 tio field SOURCE: Zurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1598-1601 TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal magnetic field ABSTRACT: The authors measured the polarization of plasmas moving in a toroidal magnetic field. The magnetic field (up to 200 kA/m) was produced in a U-shaped copper drift tube (diameter not given). The large radius of the toroidal section of the drift tube was 42 cm and the straight legs were 60 cm long. Plasmas with ion densities exceeding 1013 cm-3 were injected at one end of the drift tube with a conical plasma gun powered by the 8-12 kV 6.5 µ sec discharge of a 3 µfd capacitor. The charged particle density of the injected plasmas was not less than 1013 cm -3 The electric field polarization in the plasma was measured with probes at the exit from the toroidal section. The polarization field had components in the direction Card 1/2

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	The axial component changed sign when the direction of the longitudinal field reversed, and the component did not. The distribution of the polarization facross the section of the drift tube and the variation of the polarization f	ield
	with the longitudinal magnetic field strength were measured and are presented graphically. By comparing the time of maximum polarization with that at whis 3 cm wave crossing the drift tube was cut off by the plasma, it was established that the polarization was confined almost entirely to the more rapid, less deleading portion of the plasma burst. Orig. art. has: 9 figures. ASSOCIATION: none	d chu shed
	with the longitudinal magnetic field strength were measured and are presented graphically. By comparing the time of maximum polarization with that at which is an wave crossing the drift tube was cut off by the plasma, it was established that the polarization was confined almost entirely to the more rapid, less deleading portion of the plasma burst. Orig. art. has: 9 figures.	d chu shed
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	with the longitudinal magnetic field strength were measured and are presented graphically. By comparing the time of maximum polarization with that at which is a make crossing the drift tube was cut off by the plasma, it was established that the polarization was confined almost entirely to the more rapid, less deleading portion of the plasma burst. Orig. art. has: 9 figures. ASSOCIATION: none SUBMITTED: 18Dec64 ENCL: 00 SUB COD	d ch ii sheii ensii

ENT(1)/ETC(F)/EPF(n)-2/ENG(m) IJP(c) AT ACC NR: AT5022298 SOURCE CODE: UR/3137/64/000/048/0001/00 15 AUTHOR: Il'yenke, B. P.; Lats'ko, Ye. H.; Zalkind, V. H.; Zykov, V. Tolok. V. T. ORG: Physicotechnical Institute, Academy of Sciences UkrSSR (Fiz kgtekhnicheskiy institut Akademiya nauk UkrSSR) TITLE: Investigation of a plasmoid moving in a toroidal magnetic field SOURCE: AN UkrSSR. Fiziko-tekhnicheskiy institut. Doklady, no. 048/P--007, 1964. Issledovaniye plazmennogo sgustka, dvizhushchegosya v toroidal nom magnitom pole, 1-15 TOPIC TAGS: plasmoid, plasma magnetic field, plasma density, plasma injection ABSTRACT: The present paper is a continuation of an investigation of electrical fields in plasmoids moving in curved magnetic fields. Fig. 1 shows the general view of the experimental apparatus used in the investigation. The maximum magnetic field was 200 ka/m, length of vacuum tube was 252 cm, effective radius of spiral windings was 5.4 cm. The plasma was injected from conical plasma sources. Battery capacity was Card 1/2

IL'YENKO, B.P.; LATS'KO, Ye.M.; ZALKIND, V.M.; ZYKOV, V.G.; TOLOK, V.T.

Polarization of a plasma moving in a helical magnetic field. Zhur. tekh. fiz. 35 no.9:1594-1597 S *65.

Polarization of a plasma moving in a toroidal magnetic field. Ibid.:1598-1601

Polarization of a plasmoid moving in magnetic fields with different signs of the curvature of the lines of force. Tbid.:1602-1605 (MIRA 18:10)

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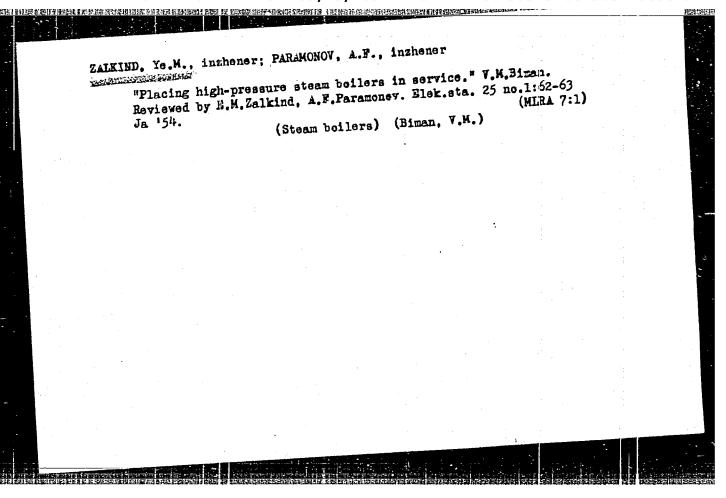
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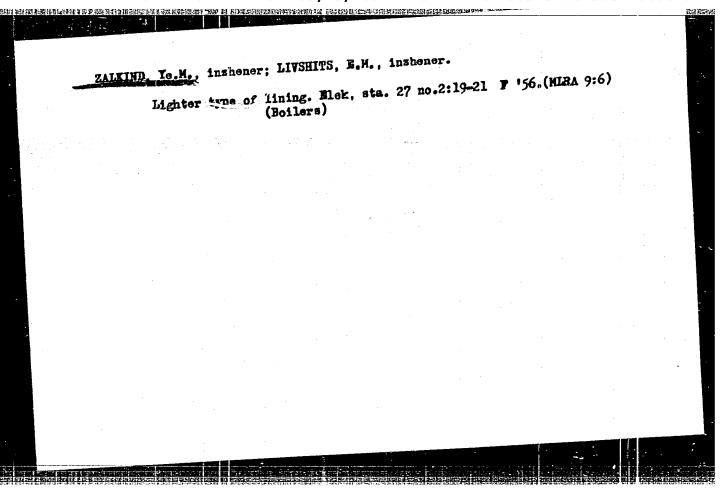
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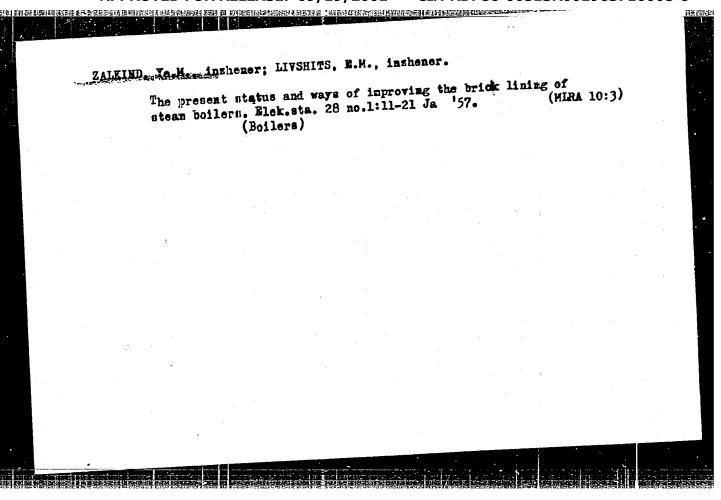
Furnaces, Electric Welding

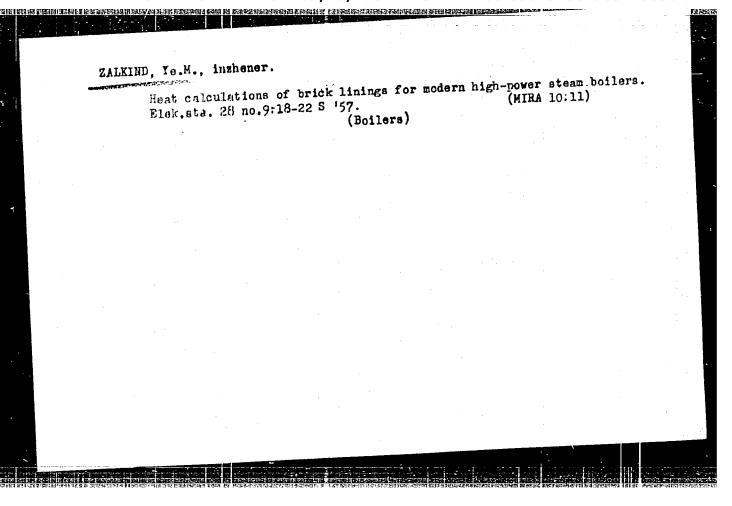
Designing, constructing and operating peg slag screens. Elek. sta. 23 No. 3, 1952 Inzh.

SO: Monthly List of Russian Accessions, Library of Congress, July 1952 1997, Uncl.



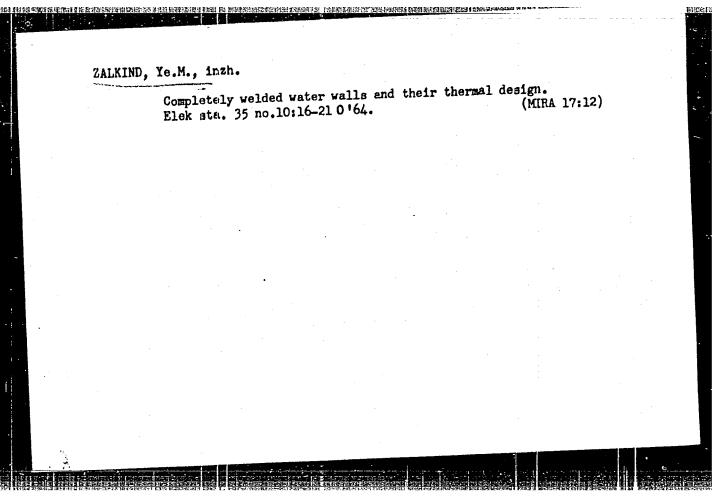






ZALKIND, Yevgeniy hikhaylovich; TREMBOVLYA, V.I., red.

[Thermal calculation of the brickwork of steam boilers; Teplovoi raschet obmirovki parovogo ketla. Izd.2. Motelova, Izd.-vo "Fnergila," 1965. 70 p. (MIRA 18:1) alva, Izd-vo "Fnergila," 1965.



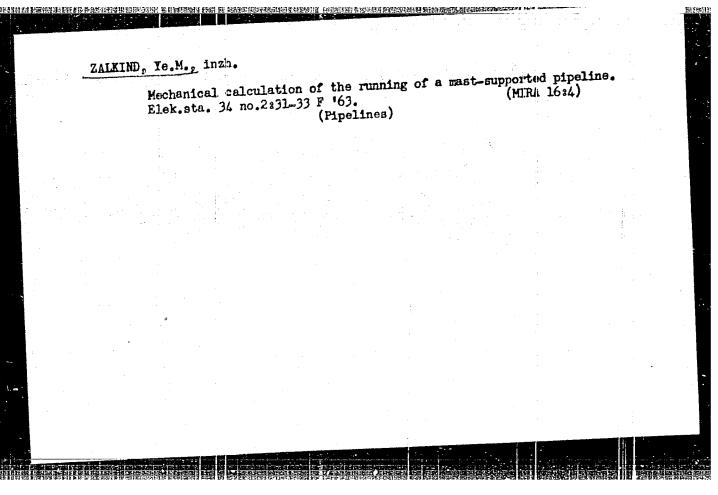
GOUKHMAN, A.A., inzh.; ZALKIND. Ye.M., inzh.

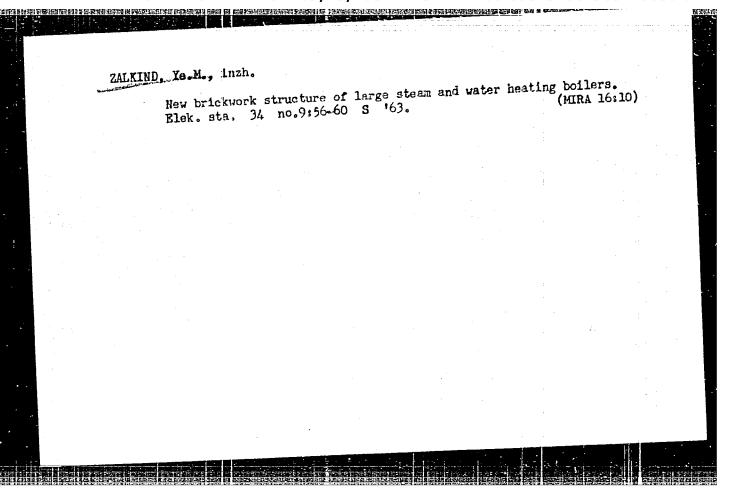
Brickwork and linings of large modern Russian boilers. Energ.
(MIRA 16:5)

1. Moskovskiy filial Vsesoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva.

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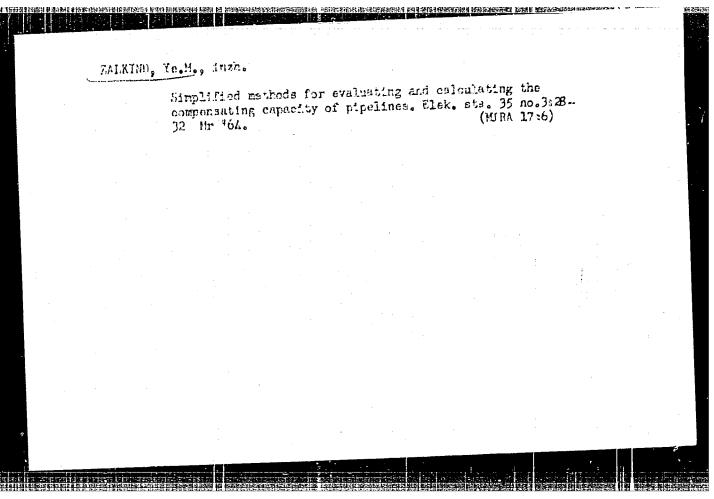
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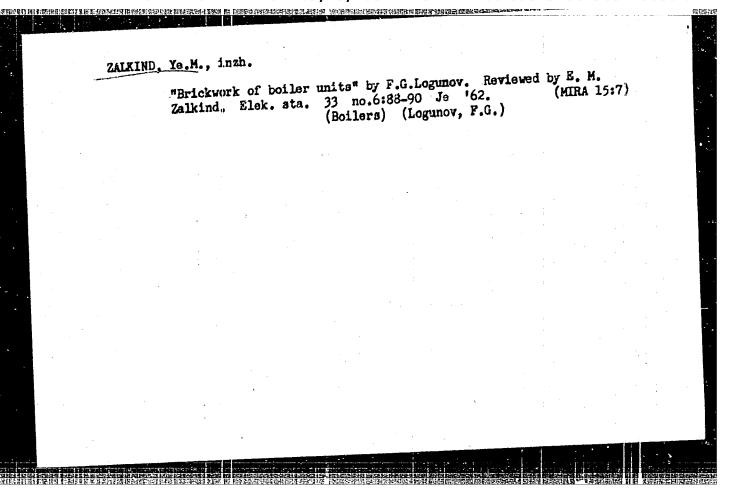


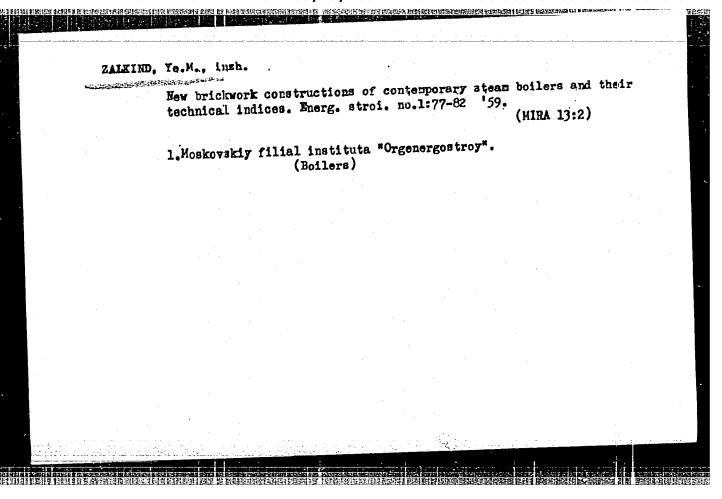


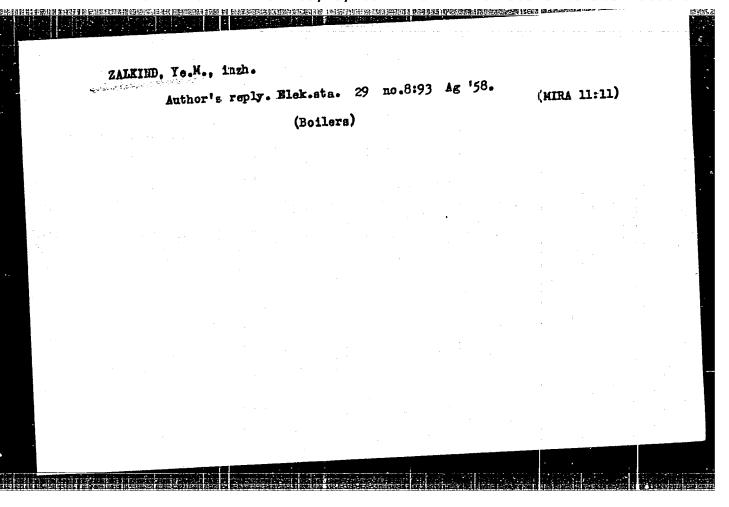
ZALKIND, Ye.M., insh.; PAPER, I.S., inzh.; KHARKIN, Yu.A., inzh.

Rebuilding of the framework of a steam boiler. Elek. sta.
(MIRA 16:3)
34 no.3:39-43 Mr 163.
(Boilers)









ZALKIND, Ye. S; RODYAKINA, V. Ya.

Third blood fraction in skin diseases. Vest. vener., Moskva no.2:54
(GIML 22:2)

Mar-Apr 1952,

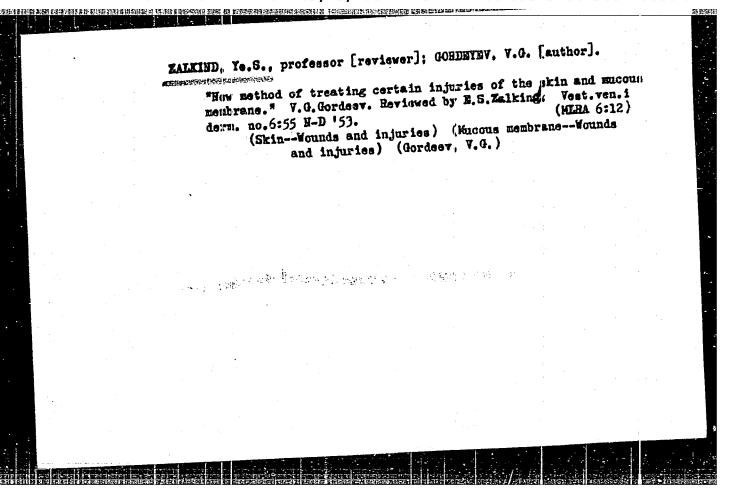
1. Professor for Zalkind. 2. Of Leningrad Institute for Blood
Transfusion.

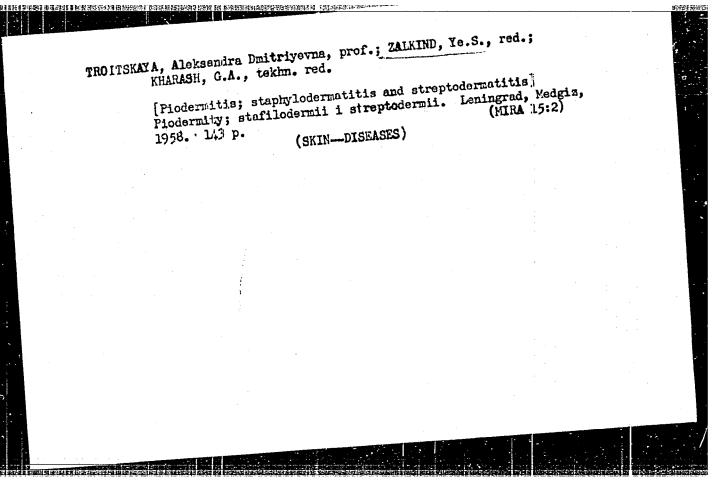
ZAIKIND, Ye.S., professor (Leningrad).

Discussion of the term "dry seborrhea" and of several other terms; in reference to P.V.Kozhevnikov's article. Vest.ven.i derm. no.4:47 Jl-42 '53.

(M.H.A. 6:9)

(Sebaceous glauds--Diseases) (Kozhevnikov, P.V.)





BOGOHOLOVA, L.G., doktor med.nauk; ZALKIND, Ye.S., prof.; PYLAYEVA, A.V., nauchnyy sotrudnik; CHAPLIGINA, Z.A., starshiy nauchnyy sotrudnik

Use of dry blocd preparations in the treatment of some skin ulcers.

Akt.vop.perel.krovi no.4:165-167 '55'. (MIRA 13:1)

是是他们的现在形式,他们就是是这种的人,他们就是是这种的人,他们就是这些人,他们就是这些人,他们就是是一个人,他们就是这些人,他们就是这些人,他们就是这种人,他

1. Laboratoriya sukhikh preparatov krovi Leningradskogo instituta perelivaniya krovi (zav. laboratoriyey - doktor med.uauk L.G. Bogo-

(BLOOD AS FOOD OR MEDICINE) (SXIN-DISEASES)

